

Figure 1a. A general mixture synthesis with fluororous tags using a mixture of tagged compounds.

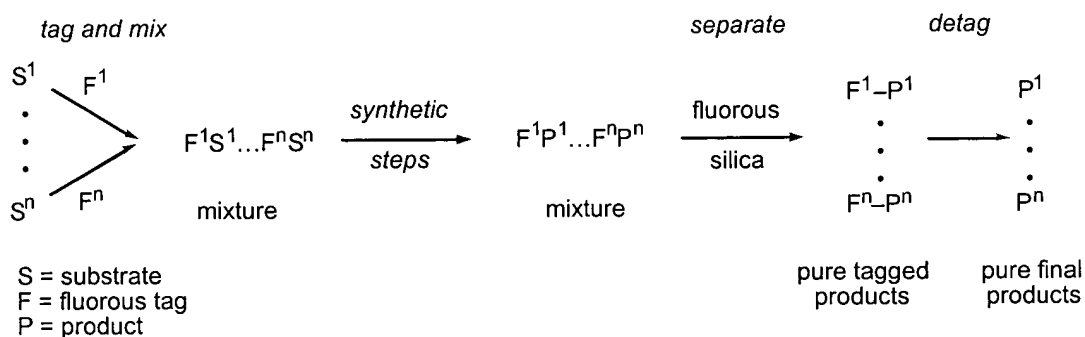


Figure 1b. A general mixture synthesis with fluororous tags using a mixture of tagged compounds and a mixture of reactants.

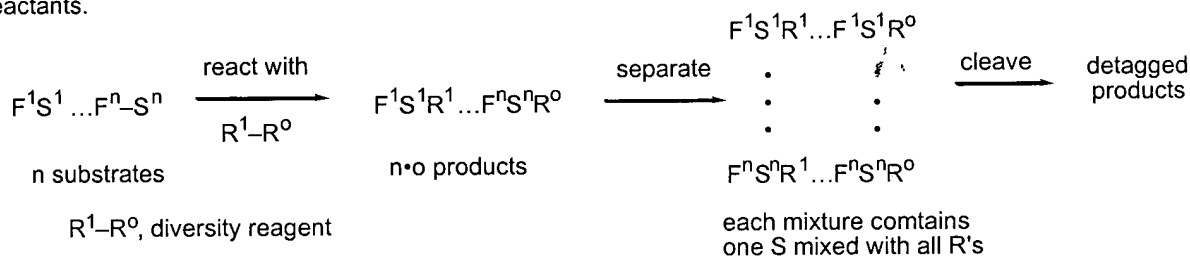
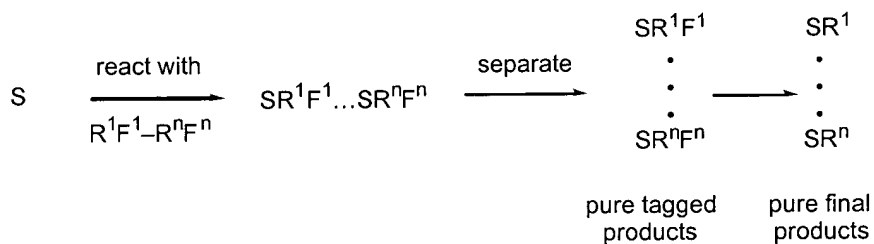


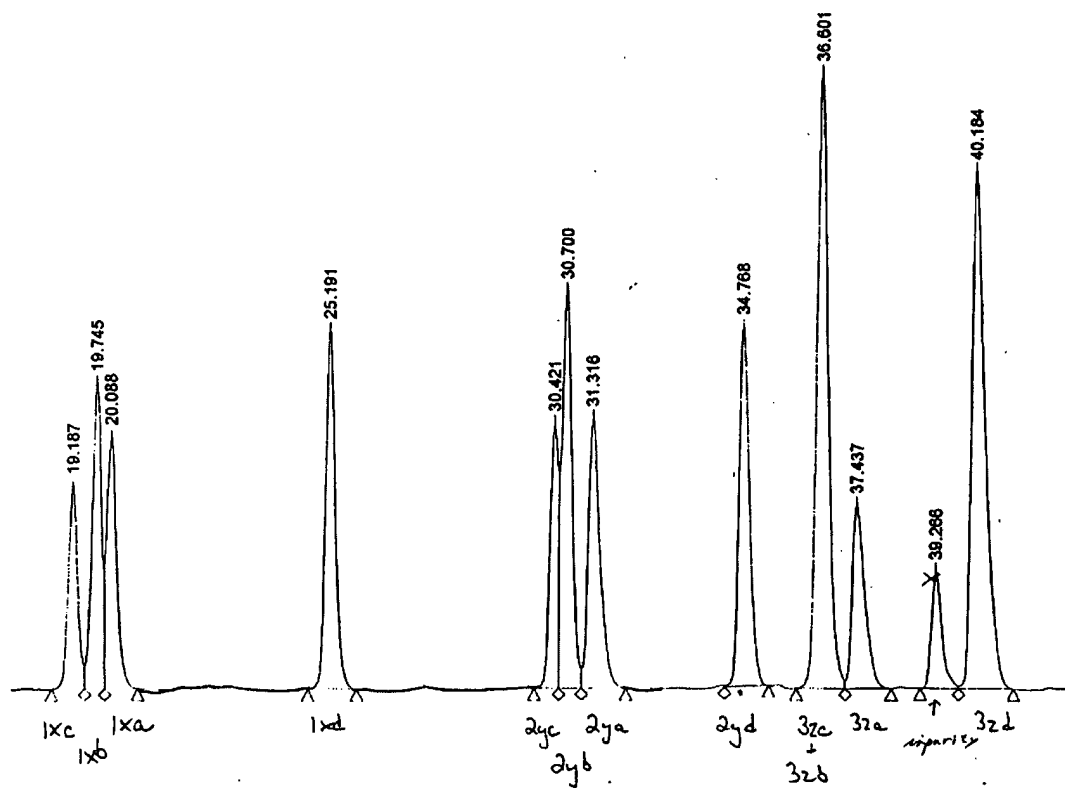
Figure 1c. A general mixture synthesis with fluororous tags using fluororous tagged reactants and a substrate.





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Figure 3. A representative HPLC trace of a library of compounds produced in the synthesis of Figure 2.<sup>a</sup>



a) Retention times are listed in minutes; compound numbers refer to Figure 2; Fluofix column eluting with a gradient of 80% methanol/water increased to 100% methanol over 40 min. The peak at 39 min is an unknown impurity.

Figure 4. Preparation of Precursors for a Mixture Synthesis of Mappicine Analogs

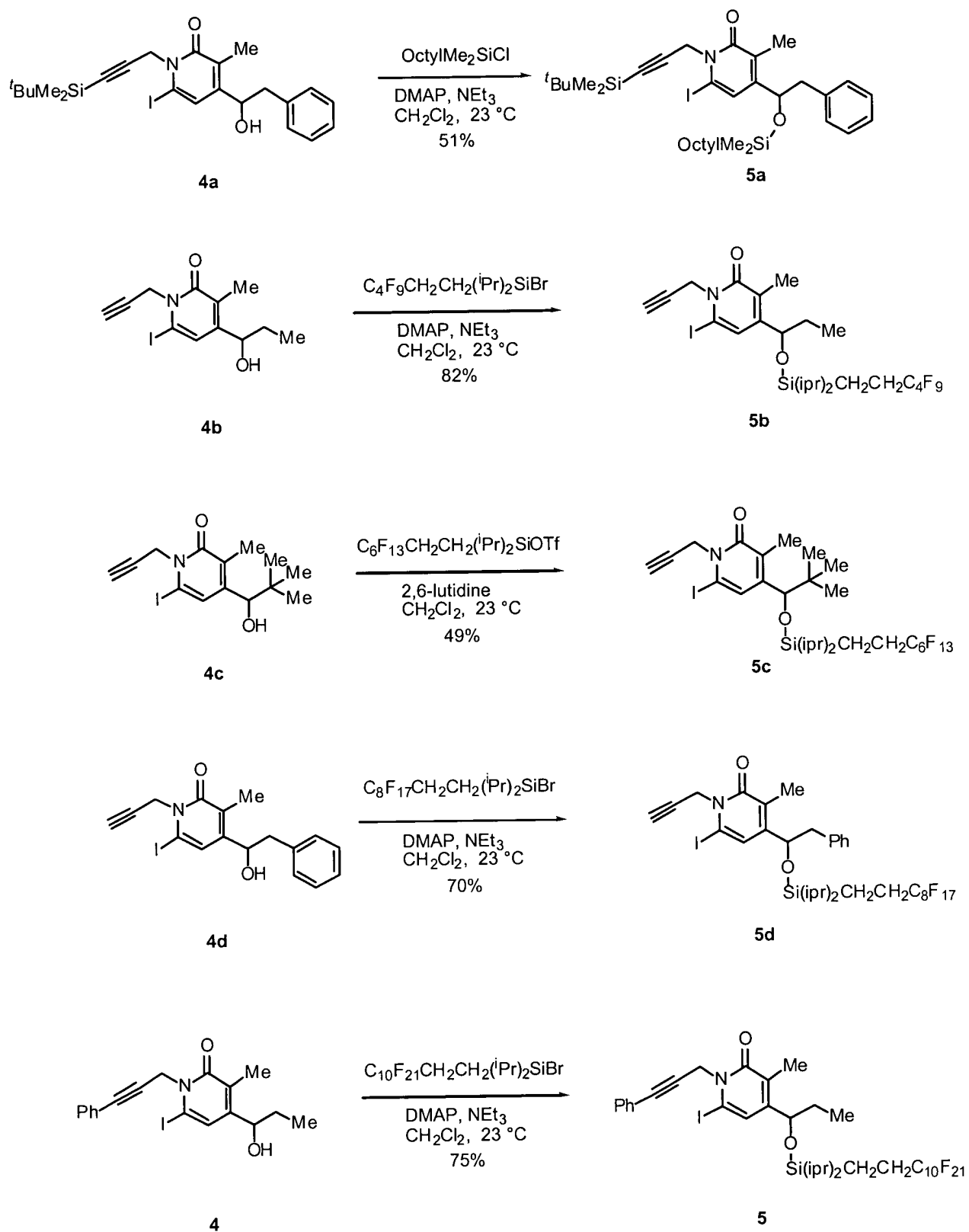
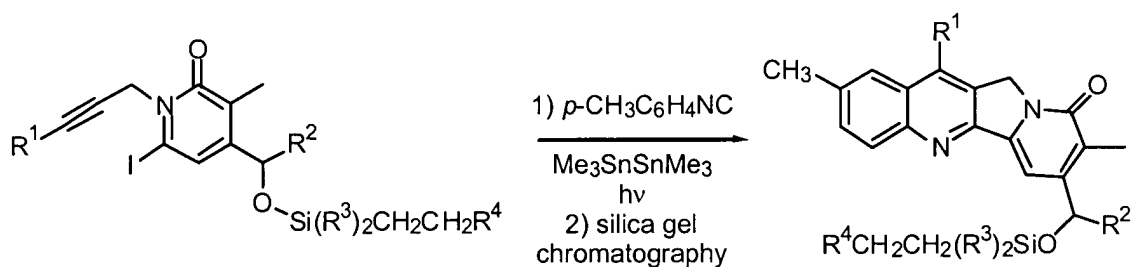


Figure 5. Mappicine Mixture Synthesis and Separation



Mixture of **5a-e**

Mixture of protected mappicines **6a-e**

	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	R <sup>4</sup>
<b>a</b>	SiMe <sub>2</sub> <sup>t</sup> Bu	CH <sub>2</sub> Ph	Me	C <sub>6</sub> H <sub>13</sub>
<b>b</b>	H	Et	ipr	C <sub>4</sub> F <sub>9</sub>
<b>c</b>	H	<sup>t</sup> Bu	ipr	C <sub>6</sub> F <sub>13</sub>
<b>d</b>	H	CH <sub>2</sub> Ph	ipr	C <sub>8</sub> F <sub>17</sub>
<b>e</b>	Ph	Et	ipr	C <sub>10</sub> F <sub>21</sub>

separate on Fluofix™

Individual, pure samples of **6a,e**

Time	Gradient
0-5 min	80% MeOH/H <sub>2</sub> O-
5-25 min	90% MeOH/H <sub>2</sub> O
>25 min	100% MeOH

	Retention Time	Yield
<b>a</b>	3 min	36%
<b>b</b>	13 min	41%
<b>c</b>	18 min	29%
<b>d</b>	21 min	36%
<b>e</b>	28 min	43%

Figure 6. Preparation of precursors for a mixture synthesis of mappicine analogs (Example 8)

